CLAIMS

1. A method for secure transmissions, the method comprising:

2   determining a registration key specific to a participant in a transmission;

determining a first key;

4   encrypting the first key with the registration key;

determining a second key;

6   encrypting the second key with the first key; and

updating the first and second keys.

2. The method as in claim 1, wherein updating further comprises:

2   updating the first key according to a first time period; and

updating the second key according to a second time period, wherein the

4   second time period is less than the first time period.

3. The method as in claim 2, wherein updating further comprises:

2   encrypting an updated first key with the registration key ; and

encrypting an updated second key with the updated first key.

4. The method as in claim 2, further comprising:

2   encrypting a broadcast stream of information using the second key; and

transmitting the encrypted broadcast stream of information.

5. The method as in claim 4, wherein the broadcast stream of information

2 comprises video information.

6. The method as in claim 4, wherein the broadcast stream of information

2 comprises Internet Protocol packets.

7. The method as in claim 3, further comprising:

2   calculating a registration key information message; and

transmitting the registration key information message.

8. The method as in claim 7, further comprising:

2   calculating a first key information message corresponding to the updated
            and encrypted first key; and

4   transmitting the first key information message.

9. The method as in claim 8, further comprising:

2   calculating a second key information message corresponding to the
            updated and encrypted second key; and

4   transmitting the second key information message.

10. The method as in claim 1, further comprising:

2   transmitting the encrypted first key; and
        transmitting the encrypted second key.

11. A method for secure reception of a transmission, the method comprising:

2   receiving a registration key specific to a participant in a transmission;
        receiving a first key;

4   decrypting the first key with the registration key;
        receiving a second key;

6   decrypting the second key with the first key;
        receiving a broadcast stream of information; and

8   decrypting the broadcast stream of information using the second key.

12. The method as in claim 11, further comprising:

2   storing the first key in a secure memory storage unit; and
        storing the second key in a memory storage unit.

13. The method as in claim 11, further comprising:

2   recovering the first key from a first key information message; and
        recovering the second key from a second key information message.

14. The method as in claim 11, further comprising:

2   updating the first key according to a first time period; and
        updating the second key according to a second time period.

15. In a wireless communication system supporting a broadcast service option,

2 an infrastructure element comprising:

  a receive circuitry;

4 a user identification unit, operative to recover a short-time key for

   decrypting a broadcast message, comprising:

6   processing unit operative to decrypt key information;

   memory storage unit for storing a registration key; and

8 a mobile equipment unit adapted to apply the short-time key for

   decrypting the broadcast message.

16. The infrastructure element as in claim 15, wherein the short-time key is

2 processed by the user identification unit and passed to the mobile equipment

 unit.

17. The infrastructure element as in claim 15, wherein the memory storage unit

2 is a secure memory storage unit.

18. The infrastructure element as in claim 15, wherein the memory storage unit

2 stores a broadcast access key, and wherein the processing unit decrypts the

 short-time key using the broadcast access key.

19. The infrastructure element as in claim 18, wherein the short-time key is

2 updated at a first frequency.

20. The infrastructure element as in claim 19, wherein the broadcast access key

2 is updated at a second frequency less than the first frequency.

21. The infrastructure element as in claim 15, wherein the broadcast service

2 option is a video service.

22. A wireless communication system, comprising:

2 means for determining a registration key specific to a participant in a

   transmission;

4 means for determining a first key;

  means for encrypting the first key with the registration key;

6 means for determining a second key;

  means for encrypting the second key with the first key; and

8 means for updating the first and second keys.

23. An infrastructure element, comprising:

2 means for receiving a registration key specific to a participant in a
   transmission;

4 means for receiving a first key;

  means for decrypting the first key with the registration key;

6 means for receiving a second key;

  means for decrypting the second key with the first key;

8 means for receiving a broadcast stream of information; and

  means for decrypting the broadcast stream of information using the

10 second key.

24. A digital signal storage device, comprising:

2 first set of instructions for receiving a registration key specific to a
   participant in a transmission;

4 second set of instructions for receiving a first key;

  third set of instructions for decrypting the first key with the registration

6 key;

  fourth set of instructions for receiving a second key;

8 fifth set of instructions for decrypting the second key with the first key;

  sixth set of instructions for receiving a broadcast stream of information;

10 and

  seventh set of instructions for decrypting the broadcast stream of

12 information using the second key.